

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

## 1.1 Product identifier

# Product name MAXIMUM CALCIUM MAGNESIUM NITRATE

Synonyms CALCIUM MAGNESIUM NITRATE

#### 1.2 Uses and uses advised against Uses FERTILISER

## 1.3 Details of the supplier of the product

Supplier name	CAMPBELLS FERTILISERS AUSTRALASIA PTY LTD
Address	18 Raymond Rd, Laverton North, Victoria, 3026, AUSTRALIA
Telephone	(03) 9931 2211
Fax	(03) 9931 2201
Email	info@campbellsfert.com.au
Website	http://www.campbellsfert.com.au

# 1.4 Emergency telephone numbers

Emergency	(03) 9931 2211 (8.30am - 5pm Monday - Friday)
Emergency	0418 350 726 (At all other times)
Poison Information	13 11 26
Centre	

# 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

# 2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

## 2.3 Other hazards

No information provided.

# 3. COMPOSITION/ INFORMATION ON INGREDIENTS

## 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
NITRIC ACID, AMMONIUM CALCIUM SALT	15245-12-2	239-289-5	60%
MAGNESIUM (II) NITRATE, HEXAHYDRATE	13446-18-9	603-823-9	40%

# 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

Eye	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.	
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.	
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.	
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).	

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First aid facilities Eye wash facilities should be available.

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Non flammable. However, contains nitrates which may support combustion. May evolve toxic gases (ammonia, nitrogen oxides, metal oxides) may be evolved when heated to decomposition.

#### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

#### 5.4 Hazchem code

None allocated.

# 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances. Do not allow to come in contact with water, either from rain, condensation or the surface on which stored. Bagged fertilisers should be stored under cover and out of direct sunlight (which degrades woven polypropylene packs). If stored in the open, do so for short periods only, and cover with a tarpaulin. If stacking is necessary, bulk bags should be stored in a stable manner, preferably in a pyramidal style. Bulk bags should not be stacked more than two high for bags containing 1 000 kg or more, or more than four high for bags containing up to 500 kg. The Pallet Capacity Rating (design weight) should not be exceeded on the bottom tier for other packs. High stacking should be avoided as pressure promotes caking. Store away from farm chemicals, e.g. insecticides, fungicides and herbicides.

## 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1 Control parameters

#### **Exposure standards**

No exposure standards have been entered for this product.



#### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

Engineering controls

Avoid inhalation. Use in well ventilated areas. Use appropriate safe working procedures to reduce the potential for an inhalation hazard.

#### PPE

Eye / Face	Wear dust-proof goggles.
Hands	Individuals with sensitive skin should consider wearing PVC or rubber gloves.
Body	Not required under normal conditions of use.
Respiratory	Where an inhalation risk exists, wear a Class P1 (Particulate) respirator.



# 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Appearance	WHITE GRANULES
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	330°C
Melting point	89°C
Evaporation rate	NOT AVAILABLE
рН	4.0 to 7.0
Vapour density	NOT AVAILABLE
Relative density	1.46
Solubility (water)	SOLUBLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

# **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

## 10.2 Chemical stability

Stable under recommended conditions of storage.

## 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

# 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

## 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites).

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## 10.6 Hazardous decomposition products

May evolve toxic gases (ammonia, nitrogen oxides, metal oxides) may be evolved when heated to decomposition.

# 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

#### Information available for the ingredients:

Ingredient		Oral LD50	Dermal LD50	Inhalation LC50
NITRIC ACID, AMMONIUM CALCIUM SALT		500 mg/kg (rat)		
MAGNESIUM (II) NITRATE, HEXAHYDRATE		5440 mg/kg (rat)		
Skin	Contact may result in irritation, redness, rash and dermatitis.			
Еуе	Contact may result in irritation, lacrimation, pain and redness.			
Sensitisation	Not classified as causing skin or respiratory sensitisation.			
Mutagenicity	Not classified as a mutagen.			
Carcinogenicity	Not classified as a carcinogen.			
Reproductive	Not classified as a reproductive toxin.			
STOT - single exposure	Over exposure may result in irritation of the nose and throat, with coughing.			
STOT - repeated exposure	Not classified as causing organ damage from repeated exposure. Over exposure to nitrates may result in methaemoglobinemia (inability of the blood to transport oxygen) with symptoms including cyanosis (bluish discolouration of the skin and mucous membranes) headache, dizziness, fatigue, heart and thyroid damage. However, due to the product form and nature of use, the risk of adverse health effects may be reduced.			
Aspiration	Not classified as causing aspiration.			

# **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

No information provided.

#### 12.2 Persistence and degradability

No information provided.

#### 12.3 Bioaccumulative potential

No information provided.

#### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

Plant nutrients may be beneficial to plants at low levels, however high levels may cause reduced growth or burns in sensitive species. Excess may be washed through soil to waterways. Nutrients released to waterways may cause algal blooms, with potential for toxic effects on aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Waste disposal** Dispose of to an approved landfill or waste processing site. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

# 14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

#### 14.5 Environmental hazards

Not a Marine Pollutant.

#### 14.6 Special precautions for user

Hazchem code None allocated.

# 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Poison schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications** Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

#### Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals) All components are listed on AllC, or are exempt.

# **16. OTHER INFORMATION**

Additional information

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



Abbreviations ACGIH CAS # CNS EC No. EMS		American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds Central Nervous System EC No - European Community Number Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous		
	GHS GTEPG IARC LC50 LD50 mg/m <sup>3</sup> OEL pH STEL STOT-RE STOT-RE SUSMP SWA	Goods) Globally Harmonized System Group Text Emergency Procedure Guide International Agency for Research on Cancer Lethal Concentration, 50% / Median Lethal Concentration Lethal Dose, 50% / Median Lethal Dose Milligrams per Cubic Metre Occupational Exposure Limit relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). Parts Per Million Short-Term Exposure Limit Specific target organ toxicity (repeated exposure) Specific target organ toxicity (single exposure) Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia		
	TLV TWA	Threshold Limit Value Time Weighted Average		
<b>Report status</b> This document has been compiled by RMT on behalf of the product and serves as their Safety Data Sheet ('SDS').		It has been compiled by RMT on behalf of the manufacturer, importer or supplier of the erves as their Safety Data Sheet ('SDS').		
	It is based on information concerning the product which has been provided manufacturer, importer or supplier or obtained from third party sources and is belie the current state of knowledge as to the appropriate safety and handling precaution at the time of issue. Further clarification regarding any aspect of the product sho directly from the manufacturer, importer or supplier.			
not provide any warranty as to accuracy or compl no liability for any loss, injury or damage (includi		as taken all due care to include accurate and up-to-date information in this SDS, it does ny warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts any loss, injury or damage (including consequential loss) which may be suffered or ny person as a consequence of their reliance on the information contained in this SDS.		
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# [End of SDS]

